

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
—  
GEOLOGICAL SURVEY

IV.



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1701 Jefferson  
Blairfield, W. Va.

VI

1941

Reviewed 8/5/42

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# 116001

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May 22 - Thurs. (continued)

1941 Along RR. near Hicksville - Round Mt. area

Dbs N35E, 21SE on RR N78E of R.R. 1 mi/5000 ft  
- 5000 ft Hicksville sh

" N45E 15SE on RR " with 40' creek

" N45E 23SE " " 3400 ft Hicksville sh  
(1000 ft from surface)

" N60W 5E on RR N75E, round

" N60W 5E " " N55E "

" N50W 30N " " 5000 ft

" N55W 9N " " 1000 ft from surface

" N40E 12N " " 1000 ft from surface  
(1500 ft from surface)

Curry Rd. 5 mi. Hicksville RR crossing

.1-13 - folded Dbs

- - - " N80E, 76N - just N. Ch.

William Rd. Hicksville to South gap

0.1 - on rim

.3 Dbs N65E, 26S

.4 " N55E, 30S

.73 " N50E, 30S

1.11 " N45E, 34SE

1.3 " N42E, 35SE

1.5 " N50E, 27SE - folded?

3.3 " N55E, 35SE - dist.

- - - - - not section - other fault

3.6 Wolf Cr (Db - thin here + back)



May 26 - Mon.

Dark road King RR due N of H. north 4 miles  
Obs 46.0 E, 12 S.

near H. north 22.15 (-27.93) 8.30

cutting blue 1 m. E of RR dr. at 6 mi N of Siler (N RR)

Obs section along rd SE of Jackson

0.0 -

.1 2255 15.1 E, 13.5 E 9.05

.23 2255 N 40 E 28 SE

.32 2295 N 50 E 32 SE 9.12

.40 2320 N 52 E 22 SE 9.15 - under 7 mi road

.54 2365 N 15 W 14 E ? 9.20 minor folds

.65 2395 N 55 E 11 E 9.25 late sand gray  
 in 4.2' section

.76 2430 N 5 E 11 E 9.32

.88 2460 N 40 E 15 SE 9.35

.95 2485 N 12 E 16 E 9.40

1.00 first south fork RR

1.15 2530 N 20 E 12 E 9.45

1.25 2560 N 8 E 17 E 9.50

1.40 2600 N 40 E 8 SE

1.60 2660 N 45 E 7 SE 9.55 sh. some sand?

1.83 2735 N 15 E 16 E 10.00

1.99 2780 N 30 E 8 SE

2.18 2820 N 65 E 20 E 10.10 - take Route 612

to RR (= Va.  
 for trail 5004)

(see p. 6 for balance US 21)



Va. Fire Trail 5002 - to N60E from Bastian Island Rd

0.15 Obs. 2755  $\pm$  10:20  
 .45 " 2680 N54E 39 SE  
 .85 cross creek to R bank 10:30  
 .99 Obs 2530 N70E 27S on creek bank  
 1.5 " 2475 N51E 12S 10:35 creek crossing  
 about 100 ft R  
 bank - 5 ft deep  
 & 200 ft long  
 1.7 " 2450 N-S, 16W 10:40 cross to L bank at  
 far edge of lumber camp  
 1.92 " 2425 N50W 13S 10:50 cross to R bank  
 2.1 " 2405 N55W 3S 10:55 " on "L"  
 2.23 " " " R "  
 2.30 " 2400 N55W 3S 11AM on rd 50' 500'  $\pm$   
 2.50 " 2390 N55W 10W 11:15 off " EL (lumber camp)  
 3.31 " 2330 N55E 16E 11:10 cross to L & turn back

Return to junction US 21 & 52 with St Rd 612 - here  
 Va. Forest Ser Trail 5003 (= St Rd 207) also takes  
 off - follow to Northwest

0.1 - Obs 2895 N49E 5S 12:10  
 0.13 " 2905 N30E 15E  
 .25 " 2945 N15E 13E 12:15  
 .35 " 2970 N50E 11SE 12:20 - to N32W  
 turn sharp R about  
 .45 " 3005 N12E 10E 12:25  
 .60 " 3080 N15E 13E 12:30  
 .70 " 3140 N20W 12E 12:35  
 1.15 " 3290 N5W 18E 12:40



124

1.44 Lhr 3370

NSW, 18E.

12:45 - road follows

crust - silty gray

ss with a few

- near top, 18E - not

provided! large amount, c

125

7 out gate - in 300 in crust.

1.75 Lhr 3405

N25E, 0E 2.05 - red, ss - white like

1/5 of 1/4 in!

- am N67E of Burton Mill

2.2 " 3355 N24E, 5E

2:05 - similar to last.

2.45 Lhr 3375 N-0, 0E

- gray + ground gray

heavy thin ss

2.6

now N55E - B. in Mill

126

2.85 " 3370 N15E, 12E

2:30 - last gray ss with

more in middle crust.

3.05 " 3360 NSW, 4E

2:35 gray ss

3.14 am 588E of church

11E of Taggart Rd fork

3:36 N4E, 14E 2:45 - gray ss

3.35 " 3350 N4E, 11E

2:50 - good gray - gray ss

th-ss

3.5 am 6R

3.6 Lhr 3325

N40E, 15E 3:55 on crust narrow

thin ss + sh-ss

4.85 - rd 6R - continue ahead

6.30 - rd ends on crust at turn around

all 18E - exp not so good over better

part

X



Returned to junction with US 21 & continued toward Blind

2.18 Lbr 2915 3:45

2.25 " 2950 N10W, 4E 3:50

2.40 " 3000 N84E 4S —

2.48 " 3005

4 PM (Brush Mt. sign =  
2826' here) - on

dench - Va. Fox Trail

No 5006 taken at

6 R. here - the last

2.60 " 2980 N65E, SSE - much steeper

2.70 " 2960 E-W, 10S - W - 495

2.83 " 2940 N80E, 18S - 490 prominent

2.9 " 6 small folds

2.95 " 2 " "

3.00 " 1 "

Stop? to take a more than one fault  
into Knox. Center of Blind at 5.27

May 27 - Tuesday

Cross Ruston bridge 2205 (= 2792 H) 7:30

Bastian - Blind section (cont.)

3.11 Lbr 2760' N11E, 40SE 8:15 AM - sharp, broken fold -  
reading just to SE.

heavy layers that indurated  
back down spherically

- heavy beds show up to 2'  
gray & reddish - then  
shaly layers between

3.15 H<sub>0</sub> N40E, 84SE

3.2 - 3.4

3.5 H<sub>0</sub> 275' N75E, 21S 825

3.65 " 2675' N75E, 15S

sh. dist., locally vert.  
folded in thin vertical

- heavy gray, hard ss. over 3' thick  
underlain by thinner, shaly  
shaly sh.

3.75 " 2625' N40E, 85S 835

3.85 " 2600' N45E, 41SE 840

127

hard gray ss. in bed looking  
to 2' type. Also below is  
abundant - granitic (bed)  
2' ss. - is ss. for 25'  
most shaly. ss. in 10'

3.98 " 2580' N85E, 10S 825

N85E, 10S

- good shaly ss. - only

4.05 " 2575' N45E, 31S 797

- fine gray ss. + sh. ss. = Des

128

4.28 P<sub>1</sub> 2550' N70E, 11S 905

- hard gray ss. + sh. ss. = Des  
- this P<sub>1</sub> apparently

128a

4.57 " 2520' N50W, 22NW 715

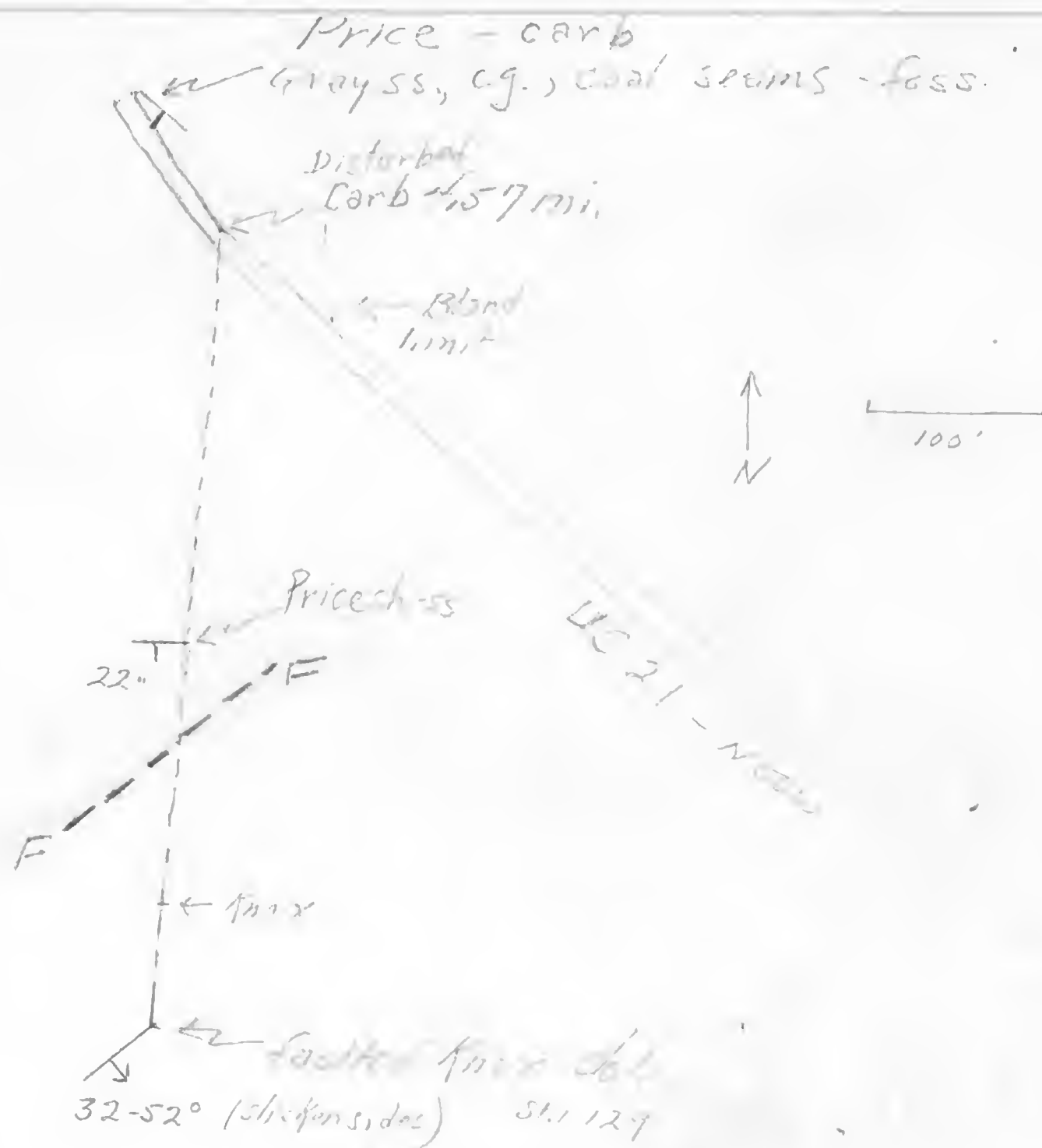
sh. P<sub>1</sub> Black Limestone  
heavy layer hard gray ss.  
with pebbles (bed)  
beginning of - bed up 25'  
- sh. in some in part sh. +  
- beds are dark - P<sub>1</sub> ss.

129

shaly ss. cherty. Knox exposed in creek 400' N of  
SSW. Plane strike N50E & dip 32SE, bearing  
from this & up to 52° or more. Knox much  
fractured & shaly with veins - exposed for  
a distance 70' from this - fault line  
about 165' from this 129 & Carter ss. cap  
220' from 129 - line in north



127a 4.05 - exp. in creek on rd - still Der  
apparently - no coarse ss no  
coal, no cgs - all very hard &  
blue. (reman bounding on slope  
& moving little to S to put them  
outcrops in Der)



130

4.9 2475' N 75 E, 22 S 10:20 Knox dol - no foss seen  
 5.15 State Rd 42 to L  
 5.25 US 21 - 52 + 54 Rd 42 to R. 5450' 10:45

From crest of Brushy Mt. on US 21 a CCC line (#5006) runs SW along ridge. Der dipping SE on 4.4 a fault or anticline with white gty appears - This Price? - end of 5006 at 7.6 - turn R. on down valley

10.3 At creek at start of CCC Fire Trail 5010 - just SW of Royal washer - come down Laurel Creek (dist 2.7 miles) - all barren - good section  
 10.77 CCC Rd to garden



P DA - Dbs on nose of Round Mt.

0 S15E N60W 30N - black sh

31 " 320' of trace of clay ref. - 22' from end  
31 " 320' sh heavily crumpled

50 S28E (to W. of Cr. Bldg) N15E 26N 25' sh

100 ~~#2~~ N40W 26N

160 crumpled (low)

218 N20W 25N

287 crumpled

317 W. Cr. Bldg

43 from road Tazewell Rd - farm R - NG.

1.65 "late house"

2.00 White house opp first big gully

3.31 2nd Camp Ground - 2nd Cr. Bldg full  
low and just at top with creek  
opp main camp ground - 2nd Cr. Bldg  
some the gully

3.53 lower Brown house

4.1 Upper "

4.8 2nd White house (on R) - am opp 4th gully

7.0 -

1, 2, 11 II = 4.5 - pass, looking S15E to segment of Rd.

Mt capped by Don + Dr - appears very  
concreted from this - 1 p in low  
h S - or L to R

8.15 = Bldg 2330

3, 11 II #6 at 8.9 mi fold in Rd - R 25'

9.0 School

16211

21



- 9.7 - BM 2441
- 10.51 Don (Dbr below along rd?)
- 131 10.6 Db - large blocks along road from cut.  
Rich very fine, mostly boulders, some  
no aspidochromis 2575' - 350 p.m.  
- still down
- 10.8 Clinton - very ? crop
- 11.05 - Cont
- 132 12.40 286 J 4<sup>10</sup> - 1st success connected with Fe  
N50E S3NW on map succeeded Dr  
- off map 5 W?
- 12.57 N55E, 24SE } Clinton road - gr. st.  
N20E, 59SE - water } + light st.  
2915 - 4130
- 12.93 - US BM 3005.6 - 3045 ft 435 -  
Tangdell Co. Line
- 1.1 strike St Rd 61 & turn R.
- 11.25 turn L on 662
- 12.2 " R on 650
- 12.82 st. ahead on 85

May 25

Wed

Returned to Nye Cove via East River Mt Rd. from  
Bluefield

2.1 mi below turn to east on S. side Don in exp.

2.33 Don about quarry hole in east side Mn filon

2.38 - road bend to R - Dr below Don - Dr

highly x-bedded - some filon

2.85 mi. Dr - showing some with long beds 2nd Ber-

16011

16011



3.19 - cross East Fork Pine Creek

441 quad. 0.5 mi. above creek crossing - new stratigraphic

.4 Don N75E, 80N

.43 Turn N73E 75N - (150' beyond last) - same bed

.49 Db. N73E, 83S - no Don 75S

- only about 20' Don present -

beyond which is Db #

Then Don - thin & fairly constant (150' beyond)

.52 - N55E, 43N - Db with thick strata

.69 Clinton N65E, 36N - heavy with small

.75 " N55E, 14N - gray gypsiferous

many layers

.76 cross axis of low fold

by axis N15E, 12E - <sup>clinch</sup> ~~clinch~~ <sup>quartz</sup> ~~quartz~~  
shaly beds in center of arch

.85 Clinch on cr. N75E, 73N

1.00 x cr. to Rbk

1.19 Knox on cr. N65E, 45S

1.25 turn to cr. crossing

1.50 US 61 Turn R - bridge H. Lee -

2.0 Knox N65E, 60SE - ridge top on US 61

(this point .3 mi. SW of pt. where bl. cross

very (thin) on top of stone bed <sup>high</sup> white bed

2.5 Knox N55E, 60SE - long section along rd

along rd to SW - black chert 7", also

thin bedded

4.5  
RI #15

11/10/11

11

6 III 1  
789  
1.17  
1.17 1.2

- 1.3 ascending much a pit hole in Knox - Perry Co
- 1.7 N 70 E, 53 S some cherty zone in Knox
- 1.59 St. 662 turn L to Nye Cove
- Knox - N 70 E, 53 S in main thin chert ledge
- 2.20 Knox - part - ripple marks  $8\frac{1}{2}$ " across (5")  
N 70 E 60 S
- 2.3 Knox N 73 E, 55 S
- 2.72 " N 70 E, 61 S
- 3.0 House of J. P. Noel - rd to top, Buchanan where Mine is reported; have done practically no excavation
- 3.35 Knox N 70 E 60 S
- 3.65 " N 67 E 51 S
- 4.40 " N 70 E 55 S
- 4.5 " with white chert
- 5.58 Stowersville
- 5.90 Knox N 68 E 41 S - if bank of creek 200' to SE
- 14.9 Rocky Gap - Knox all way
- North to Nye Cove turn = 61
- 13 Knox N 68 E 55 S - in creek
- 22 top L + R - 100' N
- 40 Knox - 45 S ←
- 50 Knox top to R L + R - red Summit - a bank part - 300' distance in creek N 72 E 75 S  
75' more in Knox N 65 E, 45 S ←
- 61 Clinch - (don't just believe in rd further)
- 1.55 cross cr.

N 70 E  
55 S



May 29 - Thurs.

Cox Creek Section

133

61' +  
Ton

section starts - 1115' - 56' - Tomlinson, exposed at our dip, 81° ± - on covered intervals both sides cut for to near base of above section - lith. typical also incl. small percentage of beds are very sandy + have been described to go on se. - column forms similar to those of Holly Brook occur well up in section but could not find good C. undulagena.

Don 266' at dip of 65° = 23' ±  
section obviously not complete

128  
- 4' total  
Ton 2

Dbr. 26.2' exp. at dip 73° directly below Don

24	"	55°	"	1' total
21.2	}	not exp well about 5' ±		
23		substantially the same		
20		- are dips generally 55 deg.		
46				
160 1/2		to be correct in dip - + without 5' for Ton		

= 920' ± !

0-100'	S 43 E
100-300	S 50 E
300-550	S 45 E
550-600	S 19 E
600-650	S 15 W
650-750	S 25 E
750-1050	S 40 E

Juniata - av dip  
75° - st N 72 E



- Start W on W. ... 1.50-50  
 0.14 Obs N40E, 72 NW } Var. ab. on map  
 0.15 " N65E, 32 NW  
 0.16 " N60E, 45 NW } crushed - ground sh.  
 0.17 " N35E, 31 NW } Var. tab.  
           N45E, 35 NW }  
 0.75 cross but flow N to S  
 0.88 Obs N70E, 45 NW - dist. var  
 0.90 - rd. L R  
 1.00 Obs N68E 40NW. - " , "  
 1.10 pass house on L  
 1.27 over trail  
 1.46 " large tree (near old R camp)  
 1.47 rd L R (keeps ahead)  
 2.00 over creek - R to L flow  
 2.28 " cross creek to R bank  
 2.30 Obs. - 25' face of sand quarry - N-SE  
           22SE - var. sand - 1/2 mi - sh. sh.  
           of yellow + pink - wht + black - var.  
           crack - has established small washing  
           - plant - car - belt - some buckets -  
           pool + stream water  
 2.45 - back across river stream to L bank  
 2.65 - mostly lodge on L  
 2.79 - across to R bank  
 2.85 - " " L "  
 2.90 - old shack on R  
 2.99 - across to R  
 3.03 - " " L  
 3.27 - " " R  
 3.30 - " " L



5.40 - record to R  
 3.48 - " " L  
 5.55 - " " R  
 3.66 Turn back - no more

June 2 Monday

Start 4 with 2 2205' (-29.67) 7:55 AM

on E-W Trail 5006 - creek boundary NW (near Butler) to SE 1/4.

08 2130 N75E, 245 8'10

15 " folded

30 " 3025 N70E 105 8'15

40 " locally  $\phi$

50 " 3055 N55E, 115E 8'20

70 " 3050+ N55E 18W 8'20

88 " 3040 E-W 200 —

95 sharp turn R

1.03 " " L

1.08 Dbs 3025 N55E, 115 8'40 - off light br. sandy shale

1.30 " 3130 N75E, 150 8'45 - br. shale + ss

134 1.62 " 3125 N75E, 250 9'05 - mottled ss + sandy sh with fine - sh. zone in coll. no cross to NNE apparently

1.80 " N70E, 175 9'10 - gray, sh. + reddish ss

1.85 " — N60W 51E of section 1st [?]

1.93 " 3120 N70E, 345 9'15 - good 15' section of gray sandy sh + reddish ss. Dec

2.12 " 3050 N55E, 85E 9'20 15

135 [2.30 - Turn L off from trail  
[.03 mi] 2995 N60E, 20.5E good foss. 940  
- back to trail at 2.30

2.60 N55E, 31SE - for out. in - Dev  
2.80 D<sup>2</sup> 3140 N10E, 11E 9150 - med. grained gray

2.95 N35E, 21E

3.00

3.20

3.48 Dev 2120 N66E, 15S 10105 - red sh. - in -

136

3.88 " 3150 N25E, 23E 10115 Reddish Dev

4.21 " 3085 N62E, 21SE 10135 Green sh. (no put)  
+ highly for. ss. - lign.  
bricks - large pebbles.  
- weather thin lam. - ss  
that appear barren

137

4.31 " - same form - all foss - same altitude +

4.41 Price 3035 N85E, 23S 10500 Price 85 + foss  
- very fresh - ss  
+ yellow

4.55 Price

N65E, 19S

4.70 1? 2970

N55E, 23SE

11AM ss - white & yellow  
- sandy sh. - 1001  
ahead - SE

4.88 Price 2930 N55E  $\phi$  1105 Red, med. grained ss

4.92 " 2920 N55E, 54 1110

for - med. gr. sh. - 510E  
- white sh. - 1001  
- med. gr. sh. - 1001  
- med. gr. sh. - 1001

Price 85 - 1001

5.6 - last turn branching almost due east  
& now appear to be well up in Carb-  
N70E, 20 S - ahead = SE

6.1 - over divide 3060' 11:35 - a fine tower  
over the S straddlehead

6.15 rd in from left at Acute V

7.6 end of fine trail

10.35 - the creek above Boyd - ashur

0.0 - return up Laurel Cr on Trail 1510

0.05 DBS 2370 N45E 22SE 12:30

0.15 " " 26 " - at turn to R

0.50 " N68E 37 " green sh.

0.62 " N50E 50 " thin sh + m

0.68 " - fold

1.30 " 2480' N85E, 14S 12:50 heavy sh + ch - m  
- Dev. border  
- 10' above creek

1.35 turn R

1.40 X cr to R bank - old house S 130E - m  
- creek - Dev. N55E, 15 SE - cgs

1.5 turn R L

1.54 Dev N75E, 21 S - thin sh - fossil  
another sh @ 10

1.60 creek divider, take L

1.79 X cr to L bank - Dev N65W, 15SW

2.15 Dev. N56E, 38SE, hard green sh, lum.  
mud cr.

2.20 Dev. N50E, 4/100 - creek & rd SE - m

2.30 " N65E, 37 SE - low up reddish Dev 17

10.  
R 15, #5



11/16/66

2500 ft. on main Sander Rd  
 by 1.7 mi. SW of NE end  
 of the flat across the C. Creek

in part above heavy growth  
 ss. here - judging of  
 floor in cut

2.43 - 2 creek to R side

2.58 - 2.65 - here - folded & faulted - locally on and

2.7 Db: N50E, 36SE

2.78 x to L side - Trail 5006 joins on L

SE side Round Mt. 1 3/4 mi NE of center

P. DA

0 S10E Db. N50E, 33SE - 15' cliff

along L wall of gully

2520' (thunder storm

coming up - typical - porous

x-bedded, coarse, ferrug.

± friable - heavy layer.

- start pace down gully

- still in gully

50 SE

217 N60E - along stream bank

340 S65E - W. " " " after the gully

485 - 524 E - open field

773 — RR - across R - 2350 m. S 45E

(this with the other line)

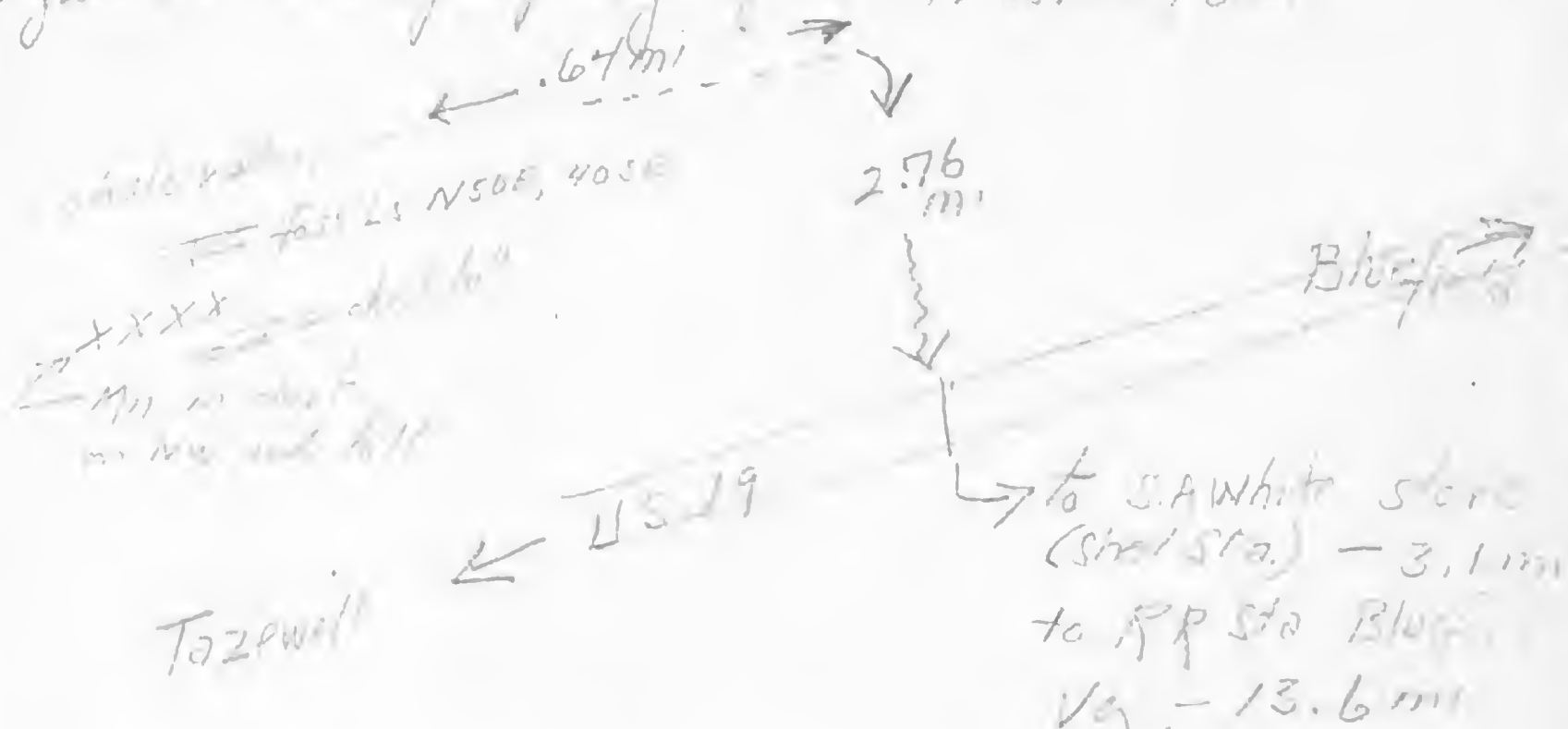
429 P<sub>2</sub><sup>SW</sup> along RR to pt where old ore bridge

about 1 mi. NE of Boyd washer

Arrive 2260 at 4:40 4/16/66

June 3 ~ Tuesday

With Herman to common occurrence of  
Manganese on property of S.A. White, ch.



- also see road to loc 1 mi. ± W of Hunt prop &  
2-3 mi W of T. prop - possible road to road  
between Garden State, Mn on ridge to E  
of Stony Ridge - the ridge evidently, led to  
by heavy sheet - no Mn prospecting has  
been done but a small length is exposed  
to SE. - there are pieces of broken rock  
1/2 mi. W. - exposed to in road to road  
- some clay, possibly, but not extensive  
of Mn sheet - has no plan for development

[I turned down Herman plan to visit loc. E. of  
the Mn. land - pending some definite info.]

136

0.0 mi. To loc. 136.  
E of E.M. N 43 E, 30 SE Don Clark's pt. - some soil  
Mn - the loc. of it is not indicated - 1911  
replaced full section on chart - but  
did not show - nothing but not disturbed  
- removed below this part in Don Clark  
in the soil is quite - some

1866

6

1866

1866

1866

1866

1866

1866

1866

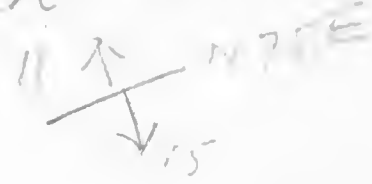
1866



- various - general attitude E-W,  $60 \pm 5$
- .05 " - N 20 W, high to low slope
- .18 clay Don quarry - 2 low folds on face  
2'0" high - dip on back up  
to 25°
- .21 Db under Don of rock
- .32 still Db - sand pit here
- .42 covered from region
- .50 Db - at turn R - about 532 E  
N 35 W, 35 SW (slumps? = unstable) - corner  
x-bedded or with iron stain
- .66± Db N 75 W 28 S - Don just  
beyond - corner on road Db OK  
- calculated here for Don =  $55 \times 2.76 @ 30^\circ \pm$
- .7 NOTE 70 SE - Db ✓
- .87 Db - folds
- 1.05 Rd R (L) - it cuts 20' ahead - cut  
face of Don Cr.
- 1.21 sand & clay clay - slumps?
- 1.33 <sup>180</sup>  
~~65~~  $\times 2.76$  toward the pt - in fact  
Db what the margin indicated for 38p  
0-35 - Db! 35-65 - corner - Db N 80 W, 35 S
- 1.5 DON - N 75 E, 80 W
- 1.53 Ton - N 73 E, 78 N to R
- 1.55 Db - " 53 S
- 1.6 Don " 78 S
- 1.61 78 S —
- 1.64± Don —
- 1.66 Db —

1894

N60E, 25NW - ss - patches  
 cascades in creek - probably  
 Clinch - then before junction  
 of creek from W - ~~could be Clinch~~  
 - grey gleyite - 2550' uncon  
 - then drop 75 p. (X 2.5) below  
 creek junction - 176 ch  
 rd bed N55E - 176 ch  
 - rd 50' above falls.

1.88 - apex of fold - Clinch  
 - ~~not Clinch~~   
 1.99 - crest of Clinch  
 2.11 - Bridge

June 11

Road  
 Across Hicksville Ch 2205 (14-2740) 935  
 Garden Wall to pt. 1 mi = SW Sault  
 St. Van CCC rd to Garden at var 5.58  
 - head S.

P = 215

P.	D.A.	E/cr.	Time	Remarks
0	S40E	3695	10:20	- Jonate
70	S40E			on old bed
100	S30E			
200	E			- still in Jan
236	S70E			
355	455	S45E	3844	10:35
485	585	S	3870	10:45





834 S 3920 10:55 reddish tan ss. +

clunch blocks;  
crust fairly massive

<sup>982</sup>  
~~1082~~ 3940' 11<sup>05</sup> N55W, 13E 7-chop. Turn

on crest - on

long block chert

<sup>1370</sup>  
~~1470~~ 3970' 11<sup>15</sup>

100' vertical cut

2' above base

but block becoming almost

<sup>1730</sup>  
~~1830~~ 11 1/2 20' 11<sup>45</sup>

- clunch from last sta

<sup>1926</sup>  
~~2026~~ 4130' 1100'

then distinct rise in bed

crest of clunch - no Jan.

N25W, 21NE

<sup>1961</sup>  
[1961 p. to highest pt 4130±]

P=2.5

0 S65E

485 3540' 12<sup>20</sup> - clunch N17E 18E

Room

737

red ss. flat

1100 E

<sup>1263</sup> <sup>S65E</sup> 3345' 100' Horn Centrop.

1508 S 15 gully bottom

1770 gully bottom

2680 S - 2760 turn N65E

3049 turn N15W down 15 gully

on west side of fault

at DB S.E.

5525E

3086 down ~~last~~ down gully to 5585 ±  
 5881 - 3086 gully fault - down  
 540E  
 40 m to pt. 40 p. below cor (cor 1.05  
 below center) 2430' (HL)

11 AM	2410
1130	2420
12	2420
1230	2425
1 PM	2400
130	2400
200	2410
2430	2440

June 6 - Fri.

Arrived. At Middle Church 2205 (=278' H) 8<sup>10</sup>/<sub>AM</sub>

500 m to Bunker

Middle gully on N side - start on Easton Rd. 3 m from

0 N28W 3720 8<sup>45</sup>/<sub>AM</sub> (=3745 at 3.05

400 " 3655 9<sup>00</sup> slope from top of hill - Benton  
 floor, no outcrops, white  
 buff ss - not typical

700 " 3545 9<sup>10</sup> Benton floor only & not over the  
 gully or yet distinct. some very  
 ferrug but not typ. red

750 N70W - gully to L?

780 N28W - no poorly dev gully

700 " 3420 9<sup>30</sup> - Clinton red floor - some  
 almost ss. with red  
 clay films





122 NSW  
 1005 N 3375 9:45 - first flood water  
 1036 " 3350 9:50 NW 1/4 = ± 3 - A crop  
 Clinton - hard white glycine  
 1080 " 3355 10:00 gray glycine in soil up  
 to 11" high - this could pass  
 for Clinch - but probably a Clinton  
 - good crop ± 3  
 1205 N20W 3265 10:10 - slope more steeper ahead  
 139 1243 N10W 3230 10:20 - no crop but certainly an  
 dip slope - much lower in place  
 - some glycine & very probably in  
 Clinch - not that abundant  
 looks like Clinch  
 1500 NSE 2990 10:40 July field with straw in  
 field - probably still some  
 soil where by (Clinch) soil  
 is.  
 Big tree from SDE - more  
 higher  
 1556 N10W 2920 11:00 as crop coming in the  
 left - entering "gorge"?  
 N 55 E 38 NW - this is mod  
 white frash ss - more like  
 Clinton than Clinch  
 1653 " 2750 11:25 Big slab *Arthropycus*  
 in partly, moderately  
 friable gray ss.  
 1830 " 2630 11:55 N 70 W 42 N = Red Clinton

probably  
 Clinch

P=2.7

1947 " 2530 12:10 - red Clinton floor, mostly  
- slope has flattened

1972 N30W

1980 sharp drop ahead -

- 1980-1985 red & green ss + clay  
looks like Sumner but may  
be Clinton 12:15 - 2500' -  
maybe by slide

2100 N35W 2485' 12:25

2148 N20W

- first Dk floor

2168

- " Don "

2361 N60W 235' 12:40

2436 N55E 2280' 12:45 Dinky bed - creek &

2457 N40E

- creek larger

2490 N50E

- creek bed into - very close  
to Wolf Cr - about 5' higher  
& Wolf Cr on banks

2515 N75W

3000 N12W

3120 (or 3020) Rd. at BME S22 E

bar from in gully.  
at cor 120 - 2305'

Fach 915 - 2260

1015 2275

1115 2280

1215 2300

120 2305



- Trans. line - from Tower Rd to Tazewell Rd  
300 p. - heavy Dan flint to here - in  
gully at this pt. in Db - flint also  
2565' at 3:20

538 p. 2540 " 3:30 - heavy Dan flint here  
to here here by mass

Db probably a crop soil  
altitude obscure N 70° 13' N?

555 p. 2525' " 3:40 Db in bottom small gully  
N 52° W, 11° NE - at road  
- with typical crinoid spots.

615 - at tower - back on creek  
floor

695 Db - flint?

813 2435 3:45 - bottom gully - big mass  
Db here - little Dan flint also  
here + back - lot more Db  
855 - tower - all Db - sharp drop  
ahead

993 2375' 3:40 all Db - tower here

1222 2280 4:00 in Dolly bed - all Db

June 7

- Sat

Amere. Bristow In yr 2780 = 2780 ft 8' 0"

townsville to S 15 E

P.	DA	Elev	Time
0	S 35 E	2275	4:30

13 "

Knox N 65 E, 44 SE

in L limb Clear Fork

26

photo crest  
= 1.5'



150	S35E	2280	9:45	Knox in front S of Horn <u>N60E, 47SE</u>
375	S70E	2345	9:50	Knox <u>N63E, 47SE</u> - dot with seams + nodules of white chert - $\frac{1}{2}$ " to 5" thick
485	S35E			
592	S75E	2410	10:00	Knox <u>N63E, 50SE</u> - gray dot with large irregular gray chert somewhat irregularly distributed
642	S30E			gate
860				non-cherty Knox as
935	"	2515	10:35	Blue ls. with black chert <u>N62E, 46SE</u> - common iron + limonite streaks
995	"	2550	10:45	- same as last - covered interior ahead
1106	"	2600	10:55	- end black cherty ls. - covered ahead
1126	"	2610	11AM	- fine lim. fine ls. - no chert <u>N65E, 44SE</u>
1143	"	2630	11:05	- end of outcrop - covered ahead
1400	S60E	2755	11:20	Judging I see and now inside Eden-Marysville - (Max ridge up creek)
1566	S15E	2845	11:30	apparently still Eden - Mary + ls
1712	"	2920	11:40	Eden - Mary sh. <u>N70E 45 SE</u>
1782	S20W			



1830 S10E 3015 11:50 -  $\pm$  top, Eden May - 1/2  
of washed

1910 S30E 2000 gully-

2010 S25E

2065 " 3220 12:05

2122 S10E 3290 12:15 JUN N75E, 44SE

2185 "  $\pm$  3400 12:25 shallow Jun red on

2205 " 3445 12:30 { N70E, 41SE

2250 " 3460 12:35 Jun - clay content  
about 10%

2268 " 3465 " Bi - crop clench  
N70E, 43SE

2270 3515 12:45 Top - only clench

on 310? 0 S15E " " " "

200 " 3270 12:55 - just dip slope clench

636 S40W 3020 1:05 - gully - shallow  
Red clay on floor - but hand flint - bone  
first appears of steep exp. clench  
a piece 280  $\pm$

700 S

1000 SW

1200 S20W

1360 SSE

1725 S25W 2620 1:45 Clench & clench  
flint only to here

1825 S

1835 " 2585 1:50 Db + Dbs flint 28



1929 S15E

2020 S

2200 S15E

2740 —

2500 south of point where 1929 S15E  
corner close S15E of 1929 S15E  
210 2500

corner checked in 2:45 2530' = B. 17 2443

140

45 S15E 50N - 2460 250

" 10' above creek at pt 455' below  
with Kemp Patch 50N - in 2 bank  
with 50N - Tonoloway - rock outcrop  
sandy layer from 1' above at  
base of exposed section.

455W, 45N - some 50N in bank  
above Tonoloway at upstream end of  
outcrop - 10' then top of 50N at  
under 50N exp. above road -  
further between here + 50N 17f?  
31' dr. exp. - This is 1/2 of  
fmi

DB 3 S55E 255E in creek - below  
Patch - by section. Then 50N at  
loc 525 W of House - 50N in bank of  
creek at 1/2 of L on wall



June 9 - Mon

Uners. Heckerle Ch 2205 (-27.71) 9<sup>45</sup>  
Burkos Garden - CCC Rd

CCC Rd 2.7 - 2.9 = 20

5.5 - cont - Sumatra - 3650 10<sup>20</sup> - very wet dirt

141

N 70 W - Clinton <sup>yellow</sup> red ss. on Rd - 40 p  
(x 2.71) from dike - some greenish  
yellow ss - red in with lighter + green  
Altogether

.08 end Sumatra

.11 Clench N 84 W, 26 N

.21 " E-W, 17 N - but slope it here  
appears steeper than by

.40 " N 20 W, 20 N

.46 re entrance - sand on bed heads

.53 Clench + 4 = N 20 W, 24 N

.62 re entrance - Clinton probably brown here

N 78 E, 18 N - then reddish brown ss

.18 N 33 W, 14 N - heavy ss, probably Clinton but some  
is placed on Clench - reddish  
later, clench not - red Clinton floor  
on top

142

.81 N 88 W, 33 N - Red Clinton - 3500 - 11<sup>20</sup> showing

1.59 - path to Grapefield

2.18 Db floor

2.25 Clinton in place near head drain

2.43 Big Hecker? Db just above rd here

2.48 reentrance in Clinton in place

2.53 Db puts - upper boundary on rd

- examined pit above rd + noted Dr

- Then place where Clinton rd cut here 30



flat on up ridge - Dr man should be  
tried to remnant on road - little measuring  
attached to unmarked dip & st. - resistant  
Clinton or below - go over whole ridge  
without variation like Dr sitting in  
Tan clay has slumped badly  
2.70 - end Dr - Clinton in on eastward

JUNE 10 - TUES

Answers. Hedgesville at 2203' (= 27624) 7:40

2.0 - Green Valley

1.0 - Fropch at PO

1.72 down L in Kidd Lane - Short Creek

Dbs N 50 E, 67 N on creek in road  
of Kidd house (also to creek side  
road 100' - N 75 E, 33 S - 2270'  
Short Creek

W.W. McNeal & John Blamper got  
lives 2 yrs ago & died some time  
before Kidd. 6 yrs ago - 100' - 100' -  
and the property passed on to them

Dbs N 70 E, 52 S - 862 E of Kidd house <sup>2455</sup>  
23 30 ~~2420~~ 7:15

143

2790 9:35 near - Dr - no dip  
st - much iron - man pit - no  
work here since last war - no  
one ever shipped from any Kidd  
properties - 52912 of H. H. Kidd  
house (unc) - on N side Wolf Cr



144

K M Kidd (brother to Harold) have  
min prospect - above well

2750 10 AM ±

~~2750~~ - see gut - down 20' - 25'  
- see clay sample - good piece  
Miner sample, a pointed area  
Kidd in 2441 in steam (unknown  
of hand) - also 239, as of stripfield  
School - clay & ss. from down  
full in split rock

0.0 - Turn off Bm in field

0.1 Kidd (Uncle) house

0.2 Lower (down road)

0.51 2441 Bm and to L

0.7 Kidd house

1.4 down well on 2441 stripfield School

June 14 - Saturday

Area Mineral in - 2205 (= 27.63 H.) 8<sup>10</sup>

Up little gully, along SW down Valley Church -

- E 5' in gully - up to 5' - some bits of  
milling stone but mostly just dirt - then  
contact up trail to south side - & to the  
area gully to Church my place

P. DA. E. K. Time / shown to interests

0 N30W 270° 10 AM / Clinton, hand going off N65E 3/4W

45 NSE

65 N30E

200 NSE

340 N10E 25' 10 30

32

N40W  
535 ± V 2490

10,35

Black shale

N65E, 35NW - no

cracks between Dls -

Clinton neither Scl

nor Don floor

prominent -

1673 N

700 N20E

750 N30W

1100 N10E

1280

Truck from R - Red hill

R. L.

165 N25E 2330 11<sup>10</sup>

Dls on road in creek N50E

1120

1585 N10E

Dls - Kullist hills

low of older

1695

N50E 310 - Dls

crack

1726

Rd

1810

Hanging rock 200 yds

0.0 - 214 - 100 ft. R. L. - toward S. in 300

535 - N40E 24.5E - Dls on road

slightly on front of 1st main fault

to L. fault

214 - 500 ft. - heavy upper member of Clinton

on the plateau on L. fault 200 yds ± ⊕

(above 1st. of main road 300 - 200 ft)

June 11 - Wednesday

Field Conference on Burke's Garden  
area called by Byron Cooper  
In attendance -

J. Bridge - U. S. G.S.

G. A. Cooper - U. S. N. M.

Arthur Bevan

Charles Butts } Va. G.S.

Ray Edmundson }

DeWitt - asst. to Butts

Wright - " " Byron Cooper

Stop #1 - Section lower "Clifford" fm.  
exposed in gully .4 mi. SW of  
Witten Math Church (go thru  
culvert under RR - from US 19)  
good exp. basal chert  
dark gray sh., blocky chert +  
part calcareous, etc. [see  
typed memo on section &  
see location as marked  
on mounted copy of Burke's  
Garden sheet]

#2 Lophospira beds on US 19 -  
excellent collecting - many  
gastropods

#3 To see upper (2nd) Vaughanite  
(calcareous) on US 19

#4 To see 3rd Vaughanite on US 19

#5 Peery Quarry in North Tazewell  
Lophospira zone in quarry



- & higher zones are in nearby RR cut.  
[Step #5a Bullets taken in 6' general  
section in N. Taywell near  
Taywell Farm Bureau]  
#6 *Modiolites* zone<sup>etc</sup> - about 3 mi  
SSW of Walton Hill Church  
(see marked sheet)  
#7 - near #6 (see map) - first  
nodular bed to 3<sup>rd</sup> calcareous

— lunch —

- #8 Rd to Proctor - upper part  
- red tongue, fucoid bed, etc.

- #9 - Pounding Mill = type  
section of Clifford farm - good  
exp. local cluster & other  
zone

- #10 across Pounding Mill Branch  
to see upper part of section  
to & above *Camarocladia*  
(fucoid) bed

- #11 - one mile east of Clayport  
Hill = *Sowerbyella* zone

- #12 *Mimella* beds & "Topographic  
map bed" near Clayport Hill

- #13 Indian Creek - nodular  
bed & local *Moccasin* - on  
end

- #14 - 2 1/2 mi SW of Taywell Ranch  
co. line on US 19

#15 -  $1\frac{3}{4}$  mi S of Wardell =  
Wardell fm. - *Receptaculites*, etc  
(poor)

June 12 - Thursday

Stop #1 + Drive West of Illinois place  
in Thompson Valley - 100' south of  
old quarry in bull pasture

#2 Section due south of Ball's Knob  
on Liberty TVA sheet - section up  
to *Scleropora* beds above *Vaughan*

#3 Plum Creek -  $5/8$  mile south  
of Thompson Valley store - *Phycochroa*,  
*Leda*, etc. - Lebanon

— lunch —

#4 Barker Garden - next to last  
gate road on S.W. corner

#5 close to last = nodular bed of  
Poor Farm near Tagwell

#7 Cox Branch section - thick  
*Vaughan* - fossiliferous

{ #6  $1/2$  mile north of Sam Hoge farm  
= *Durocher* beds, etc

June 16

- Mon.

Arrive at 1300 near Springfield 2330 (27.50)  
9:20

- Dbr N65E 51NW - along road  
between fold in shale pit & Springfield Sch.

- Dbr N50W, 20 SW - covered about 1/2 mi  
down in rd

- Clinton N70E, 24 S on rd .16 mi W of  
Hemp Patch Cr.

- " N30W, 16 S - Hemp Patch Cr. <sup>100 P</sup>  
1/2 mi S of

- Dbr - "Wormer Trace E-W ±, 135 - 2680  
2700  
11:40 - Ben first short distance  
below here - Dbr first well up  
from rd

2850  
~~2830~~ at 12<sup>th</sup> - Top ? - area?  
creek down S 35E below here - all Clinton  
first here - some with ostracodes -  
shd rd. in E with creek - quarry  
gravel upstream

- join over road Dbr first + into  
Heavy Dbr first - Rapid stream  
at 3040 12:30

3175  
~~3150~~ at 12:40 = heavy massive fine gr  
Dbr with small striae etc





3333'

~~3305~~ - 12:50 - top ferry Db station  
morose knob sur S 30 W  
Db appear to be N 20 W, 16 W but  
in  $\geq$

N 18 E 16 E = steep partly - great  
mass Clinton on crest of 3065

- 1:20 - have seen no Don yet -  
from top of run descended S 30 W  
+ + no continue -

2850

~~2820~~ - 1:30 first Don foot - can  
no longer see on shore - high up  
5 R

2615

~~2575~~ - on rd 1:50 .87 mi W H.H. Kidd

2443

\* ~~2460~~ = BM 2443 at 2:10 - near H.H. Kidd  
above H.H. Kidd house

0.0 = H.H. Kidd - on rd

0.42 = Top clay under Db

0.45 = Henry Poldt DB

0.87 = end of road

1.21 - all Clinton up draw to R - no good surface

1.38 - draw to R - mostly Clinton floor -  
small mt Db - some ferry see

1.64 - Rd to Clinton above river - of last Sub.

2.20 - ~~Db~~ <sup>Clinton</sup> - mt hill - disintegrated &  
cemented with Fe & Mn. - no

crop around shore - only  
so. & eq. heavy floor - no Don floor

2.72 = Tazewell Co. Line

Up draw to S at pt - 4 mi NE Cove Cr. on  
highway 61

N 75 E 31 S - dot. pencil marks (gravel)  
in valley above house, 44

NE Cove Cr. - Knox -

some indication of  
white shale - 2510' 4'30

N 10 E 25 - black sandy ls. - thin bedded  
at base - 2370' - 4'25

June 17 - Tues - shower

over on Rd near Grapeland - at 1309  
- 330 (= 21.57 H) 9 AM

on way to elev 2550 - 9:35 - heavy exposure of  
beds from bluff on the bank + shows some  
shallow syncline which dips on N-S to  
- beds on upthrust side dip up to 5°  
to river, downstream up to 20° - loc. of fault E of?

325 upthrust N 8 E 14 W - in 1/2 mile - heavy  
mod. gravel - one big exposure of slump on  
the steep valley ? - is up to 18° - shows suggestion  
of upthrust

climbed 1/2 mile to pt 2635 (1005) at pt.  
just below abandoned L.R. camp - only one  
sq. feet - no Dr or Ben

- section on down - dark bed. cross fault. 29



from 1900m pit + almost arrived, reach  
edge cleared field - 2:10 - then to  
after stop in woods on which there is  
much small Don along bed - old of  
pt. 541 W of Don crop on hill in  
main rd - 2510' 30 35"

- Top of head hill at <sup>2650</sup>~~2655~~ - 2:50  
at pt. 541 W of main rd 2 mi W Hange  
Patch for

Don - heavy rain, turn at pt 533 W  
of Hange Patch B. main + old edge road  
- small gully <sup>2555</sup>~~2560~~ - 11:40

2495 - car - 2492 495 - 11:40 AM

11:42 - car push

11:45 turn off of back rd

0.0 - Taggart to here

0.5 - Do reverse

1.05 - to center loc of Sol.

1.28 opp high hill - corner of

1.72 - 8m 2598

June 18 - - Wed

Arrive Buxton bridge 2150 (= 2757) NAM

Donahue

("Crockett") prospect - up to 3130 110

- with comparison of ore from 7? 40

Dr - saw nothing but Clinton (Clinton?)  
on way up - scattered sandy  
plate of iron ore - some certainly  
in pink + yellow fine speckled  
Clinton ss.

145

that mine (Corkett - 20 years ago  
- heard McVety proved ownership  
- land + stopped work - reported  
to have shipped car of iron -  
L + McVety did no work - in 1927 ±  
long. Va H & Co. - in Clinton  
- much iron - 23-24% Mn +  
more iron (35-40% Mn) - 3040 - 2 PM

P = 2.7

0 1425 W  
60 320 W  
120 535 W  
220 520 E  
480 575 W  
531 560 W  
563 530 W 15 min  
1037 - 35% 1 L of iron + 100%  
Hemp 3rd 13

June 19

- Thru

Park Gap to bridge (ccc) at Hady = 5.55

Cider Co. farm 7.78

Booke 1.38 AM to house at suspension

bridge - trail to L here

Over west creek - 1820' at 10:15

2650 - 4<sup>03</sup> 4<sup>12</sup> Hwy 1 Mill (E) ahead  
↳ (2660 W 334) - Church - Hwy 1  
Water here? - Clinton floor L wall  
3315, a.c. out

3230 - 2 p.m. 12.5  
3440 - Church 1.15

146  
The top of 2650 - all are appears very  
siliceous, containing the sand grains & filling  
the interstices between grains - there are numerous  
cracks of fracturing & some of wood but no  
large pieces of wood here - the mineralogy  
is like the Clinton "more than like it" - there  
I find no fossils or other hard matter that would  
definitely indicate Clinton

145a on George L. 575 E. of old H. road  
- gray to pinkish gray - with Mn. in cracks -  
is abundant about 1/2 way out Mn. cracks  
- no fossils to be found - see horizon  
with Trachypora

3240 - 2<sup>12</sup> - Boettcher - Sp. 2 (to 100)

147  
3PM  
360<sup>n</sup> - Old B. dump - full of some  
coarse & fine enough to small Db - or  
very sandy - much of it much slightly  
stained ea. & much fine to  
- back to mine area - at pt 6.4 mi from  
Rocky Gap



Note -

Boyd washed some of Gravel Work  
mine dirt (the best) & found it took  
239 buckets of stone & dirt each to  
make a car of 100 tons of ore  
- this is a 30-1<sup>st</sup> ratio of dirt to ore!

June 20  
148

Dr - Barker Shale - end CCE Rd  
N75E, 202 - 70-000 3075 - 3000

June 21  
149

Sat  
Dr and CCE Rd on creek bed 7th.

June 24  
150

Nye Cove - see over  
Toward  
11:20

505' top of shale NNW of 5172598  
all Clinton - Keifer mostly - some  
of red below.

3194 Dr flat and Full Branch

3178  
~~3340~~

Circle N75E, 105 - 1.5

2980 1st flat - near top DB - 2:10

272 - up - Dr of flat (p. 100, 1000)

2990 - Clinton ridge - on to it

151

2980 - Clinton ridge with some more.

over

My ... ..  
... ..

1/10/1913  
1/10/1913  
1/10/1913  
1/10/1913  
1/10/1913

1/10/1913  
1/10/1913  
1/10/1913  
1/10/1913  
1/10/1913

2798  
2960 2:45 - Don Port - top of fm.?

\* 2605 = B17 2443 W 32.5

June 25 - Wed

Over Southport 2205 9:3 2867H

7.2 mi from Hockley on rd. Grapeland - near  
Xing Cr - turn N or SW toward  
Rich Mt.

124 - #1 - toward Moss from above grade

7.3 N65E 50NW - Db. on

7.35 sharp fold in section down N65E ± - 45SE  
19 NW

B17 - #2, 3 - above fold

7.35 - cylindrical

7.46 - beautiful folded section to here

7.57 turn R (long box to gate, straight ahead)  
- turn L - 11 well, low sea hills

7.9 " R up Spring Hill, toward Rich Mt

7.11 - folded salt sh

8.11 - X turn in from R = Clear Spring R.  
2350 10:50

N60E 58NW - Sh 200' 80' paleo log - on ground

N55E 38SE - " 375' " - 2350

N33E 15SE - " 900' " - good well for

1780 440 2415 11:15 " - on well N41E 13SE

3065 220 2460 11:20 Dbs N60E 31SE

hard gray ss in Dbs



1370 - Don't go back standard

1571 <sup>2528</sup>  
~~2535~~ 11:35 Don't very heavy at base  
of flint iron - prob. under  
thin Db here

<sup>2550</sup>  
~~2564~~ 11:40 NOTE, 385E - Black sh.

<sup>2635</sup>  
~~2650~~ 12:15 at creek  
- up to w - still Db

amer. 2375 - 12:40 (= 2350 at 10:50)

PS - Digging toward sh hole on hill seen above  
creek in low ground in R. side Mt.

- amer. 2445 BM = 2460 - light gray field  
stone to R. - cross creek on old road  
below creek - 1:20

- up over Don flint iron - at top <sup>2860</sup>  
~~2850~~ 2:15  
in at top - 567m of ground  
Horned

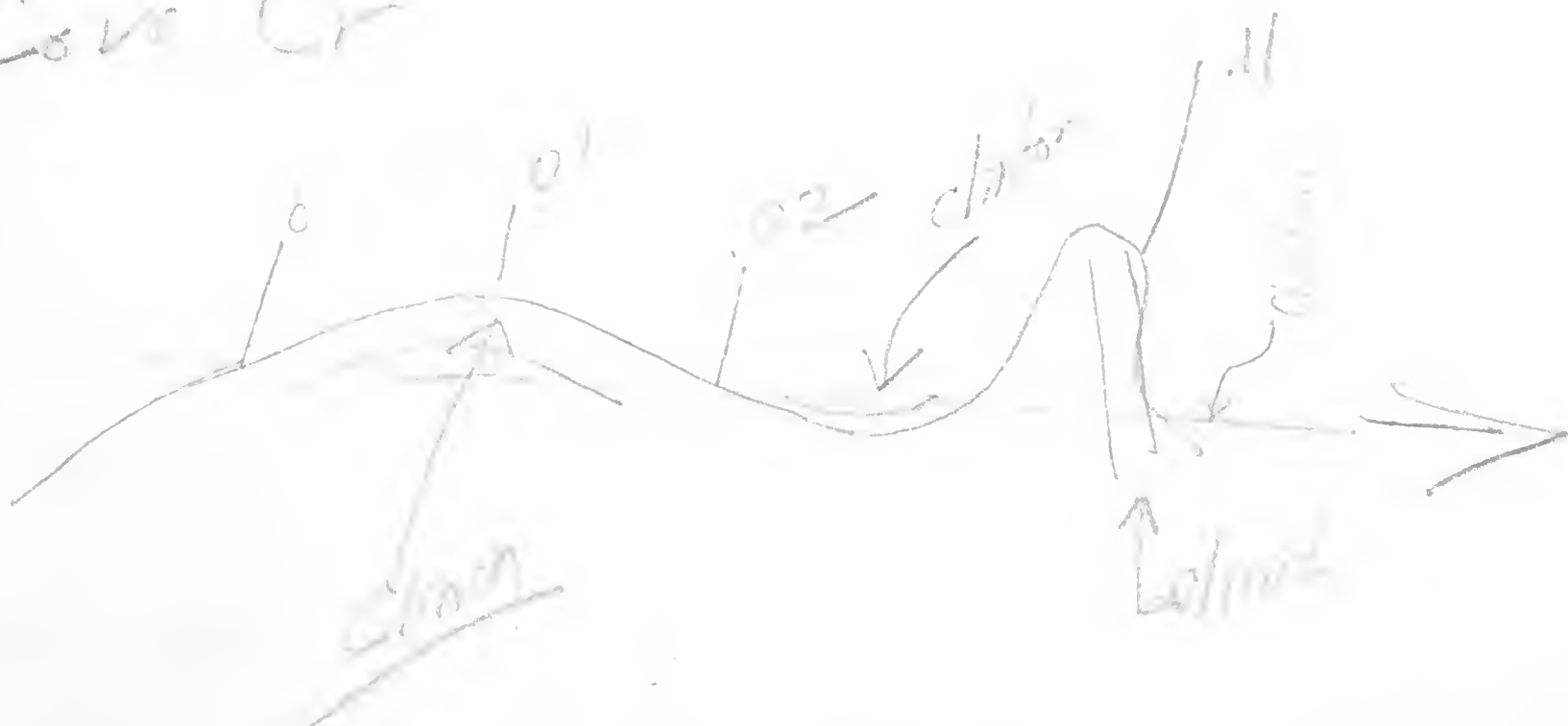
- Don at level ~~2935~~ - 2:25

~~Don at level 2935~~  
- now <sup>2958</sup>  
~~2975~~ (= 26.91 H) - 2:30 - crest of  
flint iron - dip shown on Mt. Side  
good Db ferr. here

2915 <sup>2938</sup>  
~~2955~~ - Don at level to the level - i.e. rather

2885 <sup>2918</sup>  
~~2935~~ 2:40 20' of crest of iron  
- am 529 W 7 Kidd house (H.H.R.)

Cove Cr



$$2^{180} = B1924 + 3 \text{ at } 3^{10}$$

- up 795 +

June 26 - Pine  
Lash

$$\left[ \begin{matrix} 1 & 20 \\ 0 & 1 \end{matrix} \right]$$

2630 2622

7545 - 10:50 - edge of summit woods - most of  
flint is Clinton ss. - a few - rare -  
are probably close to fault - on  
surface. some are flint (rare) looks like DB  
46





2835

~~2845~~

~~2750~~ - near top, in broader slope - Clinton?

~~3050~~ 3058

152

~~2995~~ - Crithomyx in beach 11:40.  
- glauca

3145

~~3070~~

~~3085~~

- wetland and cleared creek 11:50  
Clinton gray feds on rounded  
crust

3095

~~3115~~

~~3145~~

2

- N150 E 60° - clear - soil 1/2 of creek  
12:15 - coarse, white, finely cgranitic gray  
friable ss. - 800' ± - cleared creek  
1 mi. in. S + across bridge toward  
valley to S - bottom from cleared  
land. S. coast was just at head  
of the gully - Clinton - gray - red

From a creek - in valley

N70 E 55 S - from creek at, some road

2835

~~2875~~

~~2750~~

12:45 - in wet glauca

153

2795

~~2825~~

~~2750~~

12:55 - and spotted in

Summit?

2760

~~2805~~

~~2725~~

- 1:00 - white glauca here - some to be  
place - altitude about - from 800 ft. here

2740

~~2790~~

~~2705~~

- 1:20 - some rounded li + sh

- some change in vegetation

N60 E, 36 N (about) - 65 N - below (S)

47

- no one seen here more like more than Martinique  
 154 point & shaly above (N) - 35' ± }  
 155 grey massive bed 25 - 25' ± } Macassar  
 probably

continuity close to fault  
 - 2670 2915 <sup>Bland Co. line</sup> - house at head gully

156 <sup>2475</sup>  
 → 2450 2911 1171E 42.5 - col & sh slt  
 - probably lowest layer but may  
 be older - main fault between  
 here & east - about 40' ±

2450 2385  
 2365 2172E 42.5 - mostly fine  
 in gully

2300 <sup>2365</sup>  
 2280 1/2. 6. Not house - 250

2250 2010 Back to car 2130 (= up 65' in 4 hrs)

- 1.4/3 = Noel house  
 - 1.7/2 = Bland Co. line





# Sweet Springs Area

July 3 - Thurs

2.0 FINE at road fork south of Sweet Springs -  
on road to Gap Mills (1.6 mi. N.E. of Sweet Springs)

27 5000 750 - mostly to N. side of road in valley  
near to be disturbed = near road?  
N62W 20S - 1000 ft. to 20' deep

56 P - in gully to N.  
0 - N45E 20S - 1000 ft. - crop in July  
3 - 1000 ft. - 1000 ft. - 1000 ft. - 1000 ft.  
34 N45E 20S - 1000 ft. - 1000 ft.  
37 (x 2.5) - 1000 ft.

{ - on the side of road to Sweet Springs - mostly 1000 ft.  
may be with some 1000 ft. - 1000 ft. - 1000 ft.  
- 2000 ft. - 1000 ft. - 1000 ft. - 1000 ft.  
N30E 20S - 1000 ft. - 1000 ft. - 1000 ft.  
EB 1000 ft. - 1000 ft. - 1000 ft. - 1000 ft.

N45E 20S - 1000 ft. - 1000 ft. - 1000 ft. - 1000 ft.

165 "Pike" creek (about 1000 ft. - 1000 ft.)

165 1000 ft. - 1000 ft.

178 1000 ft. - 1000 ft.

175 N45E 10SE - 1000 ft. - 1000 ft. - 1000 ft. - 1000 ft.

208 N60E 20SE - 1000 ft. - 1000 ft. - 1000 ft. - 1000 ft.  
- 1000 ft. - 1000 ft. - 1000 ft. - 1000 ft.  
- 1000 ft. - 1000 ft. - 1000 ft. - 1000 ft.  
- 1000 ft. - 1000 ft. - 1000 ft. - 1000 ft.





2.18 about in layers & shaly 11.5 bedding  
- mudstone in rd - house - 8-10 ft up gully

2.43 from N.B. on rd in rd NE of (Mason's turnoff)

3.2 rd off - Meyer's (mine - thin gal)

3.55 Cooksbury Church - 1/2 mi. behind road  
N60E, 55SE - gray dol - partial exposure

4.0 - road from N45E 24E - buff dol  
with dark chert

4.54 Littlebury School

5.48 - Dunes

6.91 - Cent. Church

6.98 - " " - " " - " "

8.41 cross Ketchikan cr. to L bank (see for  
photo - a road stayed on other side.)  
N80E, 55S - exposure of 11.5

8.65 N76E, 50+5 - " " - 1st section Creek - gray shale

8.72 river of Ketchikan Cr. to R bank

8.25 Sped from Ketchikan Cr. onto rd to L

9.31 from N65E 40SE - heavy K100

10.50 Rd to Zamb's to L in Gap 19.15

10.40 overturned Tumbler on road 50E 63SE

10.50 Church from opp side - very thin & continuous  
N45E, 52SE - " " - " "

10.51 from N45E, 52SE - " " - " "

10.60 Clinton N65E, 76S some layers very hard -

gypsum - minor fold upper and very

- 10 ft bed (Howard 11.5) a series of steps on

exp - rd gutter N55-70E, up to 855 -

interbedded with chert and beds of

hard gray flint 6-9" thick - thin



Lith. identical with Dr - many rounded stones - some large - few blocks - no appearance but upper row full of (eggs)

section probably upper Clinton (but Clinton to S - of road mill)

- about 15' clay & glauconitic clay - some of clay above glauconitic is only faintly gritty - could represent Cuyahoga [No] between above section & folded Clinton

The section is mostly covered (probably 20')

but a bright green sandy clay occurs

- this like upper Clinton & Ding Dr

- 25' interval hard as between clay zone

10.65 { (11.45) - marches to R at 100' beyond mill  
N60E 23SE - (like Mowdage?)

Start 11<sup>th</sup> hour to Don

10.9 - 205 N60E, 0

10.95 - 100 - 0 - up Dry Run

11.50 N50E 49SE - Dbs - greenish sandy sh.

12.10 Cross Dr. Run to R bank - Red pine timber, (in brush Mt) used in road work along run

12.47 Dbs - N70E 0 - hard greenish gray sh - ss

12.54 light gray slightly gritty clay in gutter

13.05 Dbs N60E 0 (other Dbs between here + 12.47 are 0 or nearly so)

13.20 Dbs N70E, 60N

13.30 (top ahead) Rd to L into gully - (11<sup>th</sup> Dr. Mt. S)

13.40 N45E 0 - Dbs

51



14.03 N50E, 70SE - Dbs - blocky, over stained  
 gray ss  
 14.32 N60E, 79SE - Dbs - gray, sandy sh  
 - Sp small mass  
 14.68 Dbs N64E, 50SE - sandy gray ss + sh  
 14.92 cross st. to R. bank  
 15.20 Dbs - N60E, 50 ✓  
 15.41 big mass on R = Roubidoux - old sh. not open  
 15.50 Dbs N70E, 50 ✓  
 15.70 - high pt. on rd to L - return to Roubidoux

1170E, 80SE - Don. sh. at sh. - left bank  
 creek below Gap Mills on point view  
 of Don. & old sh. (lower) - just above road  
 end of old creek

158

165E 615 - Clinton left bank creek  
 (behind 1650) house near Gap Mills  
 - big "Db" mass below house + Dbs  
 but section true side not as good as DB  
 - gray + white gypsiferous ss + almost black  
 - for a little, a concern

Note - from rd on river valley to see only  
 water on - gully the Roubidoux river not  
 exp. + fresh Db-Don? - looks so  
 but with section on ground it probably  
 is Clinton sh. this former gully -  
 Clinton gypsiferous in "fresh"

July 4 - Friday

Mr. T. Walter Friel of Middleburg, Va. called - he is partner of Stanhope-Wiedeman Co. (Stanhope Wiedeman home address is 428 Fayette Park, Lexington, Ky). Friel says he has 1800 acres on SE side of Blue Ridge from Paint Bank to Laurel Rd.

Leased Paint Bank property to Blue Ridge Manganese Co. (Ray Arms, Res. & Engineer) & Victor Harris, Treas.

Paint Bank under Stanhope Wiedeman shipped about 500 tons good ore, he claims.

Bucket (one of main pit & one on road also now worked out)

Dug down 25-30 churn drill holes to depth 70-100', taking Mn. analyses every 4 feet.

most holes ended in hard ls. - penetrated 10-12' overburden & found little Mn (such as found mostly in clay - more clay than sand) Mn. ore only 2-3% in most holes

Log & map showing holes sent to Shumaker Ore Co. & "lost"

July 6 South Abasco to West side of ...

1.50 ... to ... of ... 135W, 7NE

1.52 ... to ... of ... 48 ± E ...

1.55 ... to ... of ...

1.57 ... to ... of ... 21E ...

1.58 ... to ... of ...

1.72 ... to ... of ... 25NE ...

1.75 ... to ... of ...

1.80 ... to ... of ... 1SE

1.94 ... to ... of ... 21E ...

2.35 ... to ... of ... 1SE

2.50 ... to ... of ... 21SE

2.60 ... to ... of ... 24SE

2.72 ... to ... of ... 25NE

2.80 ... to ... of ... 25NE

2.90 ... to ... of ... 25NE

3.00 ... to ... of ... 25NE







16

3.89 - N45E 7 SE - red Clinton with fox  
- chiefly cement stone & few blocks  
- as seen & when small pebbles  
not numerous & weathered part of  
sample to "It" - this rock could  
not be It!

3.75 N45E 8 SE - white, smooth, some  
small pebbles - probably Clinton

3.79 - good but in low syncline in  
similar to some beds of glauconite

{ N50W 12 SE - also  
+ N45W 10 SE - (see 3.89)  
+ N45W 10 SE - very light - probably  
lower bed of Clinton - weathered  
small pebbles

{ N45E 20 SE - also  
+ N45W 6 SE - also

4.30 - 2 SE from N45E 25 NE red bed

4.40 N45W 20 NE - white, Clinton  
- small pebbles

4.50 N45W 32 NE - light colored  
Clinton - this bed almost certainly slumped

4.66 " N45E 30 SE - of

the around area of

5.15 N45E 10 NE - heavy beds of Clinton  
sand - yellow & pink - some var.  
color, but slumped - slumped under it is  
just ahead - deep gully on L

5.30 - long, irregular Clinton - of - much + 50



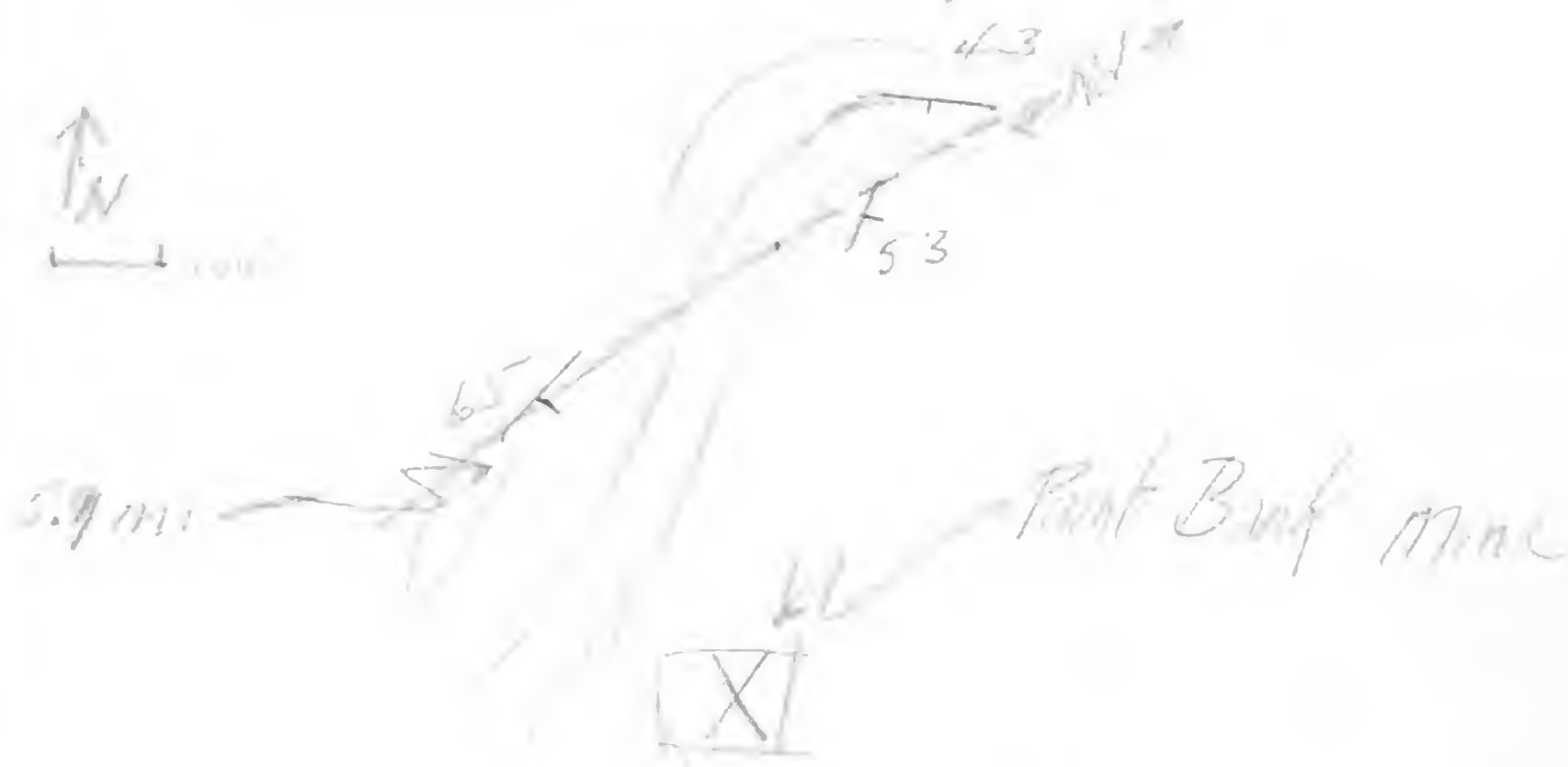


yellow weather ss in thick beds N 5 E, 315 E  
 - some thin greenish & purplish sand  
 5.75 - thin ss & sh ss in shaly  
 syncline into bed - thin almost  
 certainly slumps - low in volume  
 of similar type

5.90 Purple marked section ss. In part  
 the main set of Paint Bank Mine  
N 3 E - 5 SE - thin at unusually high  
 dip and just top of lower here  
 shown

N 3 E - 35 same 23' thick of last  
 may be with old for north to  
 the 100' dips.

N 22 E - 33 E low beyond last



6.03 - roadside turnout in Db

20.21 - #12. Over Paint Bank washer from old - uncorrected Rd

The tunnel abandoned while still showing  
 good ore - dangerous due to heavy  
 overburden of ss below - opening here  
 20' of main lagoon, base of capped  
 subcircular pit 25' in diameter - around  
 base of ridge is a 3' zone lenticular  
 5' to 10' south of center - bank  
 2' at top of pit - no exposed soft  
 lenticular or subcircular are all cut out of  
 ore showing in + overburden - sub is in  
 10' thick - below shows no more.

So as conditions are poor, iron - almost  
 blacked with some small ore in hard -  
 where in shaft is less water - massive  
 - mostly showing to 11 some bedding of  
 rock - beneath 5' of sand is the rock  
 in soft lam., more calc. soft fault,  
 from to west of ss - suggestion of tone  
 but not a day

1620

road 295E (-). - as many as  
 as shown in sketch like typical 36 -  
 however, the presence of chert in mineral  
 - appears to be in lenticular masses up  
 to several inches in thickness 11 to bedding  
 - one of main cavities is 20' in diameter  
 - cannot see other  
 - note that dips on 26 appear regular to 30° E)

- 6.1 - removed with <sup>23h</sup> - ore probably to show
- 6.3 on north side - probably in main steeply dipping
- 6.6 - junction with Rd 18 at edge Point 36



- return to road + take rd road to E
- 0.05 - road N20E 20W - 1/2 mi
- 0.10 - road N50E 22NW - 1/2 mi
- 0.20 - road to washer where rd up Mt
- 0.23 - 1/2 mi to 2 washers near schoolyard
- 0.35 - road N22E 7SE - 1/2 mi
- 0.50 - road N22E 20NW - 1/2 mi - Shingler's Clinton Quarry
- 0.60 - 1/2 mi
- 0.63 - bridge over creek

From quarry road, walk north down hill -  
 On valley is road to distance 2.15 mi -  
 no motorway - when creek (near a high flood)  
 large creek. Then Mt then in heavy as  
 talus - mostly Clinton - probably are a  
 few of (faded in road north)

Call on Guy (name) who lives in Trout Lake - where  
 - see local man now prospecting behind pit  
 500 ft of Old Lake & had gotten four ore - all  
 - 1 to Mt. (name) would be climbed this road

take 6-7 to SW of New Rd - Tow. High Mt. Ch.

- 1.55 N65E, 23SE Red Clinton - 1/2 mi - high 57

1.68 NSB 22E - Red Clinton - Longhorn soap

1180 45200, 238 -11

2.07 10-11-15 18.50

2.25 - turn around in red sliver flood  
at creek (run 15' beyond turn  
down to Trout Brook)

July 9 - Wed.	
---------------	--

163

1624

thin in field  
Note -

Section by E. got good contact through  
young fault - various geological  
remains in company. Section -  
Cholmondey ground. Thin - get out but  
do not have the right. Found a lot  
of the Cholmondey dish - has seen  
only hand spec. of or up to good  
specification. Company, was out  
to have no angle. Fresh material  
and the last - see some evidence  
as only, see something just before.

11.5 -

At this point, the section is 15 feet  
in - go - back in to the old  
Dunstravy area - see some in town  
and company built.

165

15 SE, 55 NW - Db. with Mar. in  
at end of the section  
Point 2, 100 ft. from the  
Hampton Marbles (at Martin  
house from the park in the  
N 70 E, 5 N is probably a better reading  
- see the way the section is to be  
up stream close to creek, just before  
house  
- N 65 E, 20 NW here, ledge close to  
Martin house  
- N 50 E, 35 NW



Dev B, sh. - fully along road N50E  
above Linton, low (cutting) - low above  
house on the bank

- 1.00 - wide lane  
1.05 - 7' <sup>Expos</sup> Johns Cr. T. f.  
1.06 - X <sup>^</sup> from near Myrtle lane  
1.15 - Sh. layer  
1.22 - Sh. under - same as 1.0  
1.59 - X on 1.0

- Along East Bank Bar - cut off to East Bank  
0.0 { Op. climbs - hard upward glacial ice  
with cliff with up at 1.0  
by as N50E 0  
38 Climb N50E 82.5E - returned  
48 climb from on road  
0.02 73 at end Linton section containing ice  
at East Bank - good part of  
glacial thrust ice - N55E, 75E  
- very good section - not high up of ice on  
climbs - shale climb from downward  
1 take in some of these 2  
0.30 - Sh. 21  
0.40 = BM 1735' N50E - SW side of road  
at end of road at pt N78W  
of school 4572' N of road - 25' above ground  
- Black sh quartz containing at var loc  
at var loc N60E ±  
0.51 - 0.56 - "Stone River" LS, shaly, highly fold  
N60E 270E - exp along rd when 60

166

crack comes down - thickness of 25' full exp  
(must be fault between this & last - not  
seen in field) - rock very chert - mostly  
nodular & a few 8" or more thick in  
crowded with several subequal blocks,  
crinoids, large, some - 1 to 2' in diam. (all  
of these for & 2 of material for  
washing & acid treatment)

0.60 - from small drawer, <sup>with ad. to R.</sup> & center shows  
N65E, 51SE - Lam. beds with groove  
weaving

167

0.69 - section left bank creek N65E -  
Lamin. like ~~that~~ <sup>from</sup> then added - dol.  
& sandy dol. - evidently from  
bed west of River Bank

0.92 x creek to L bank

\*

1.02 Arroyo house - now on Dbs? - exp to R?

1.11 Church

July 5

Thurs.

Section NW. of S.W. of App. Creek

0.0 - to. main rd

0.04 x - Sweet Spgs. Cr. N70E, 55S - heavy dol. green

.42 - enter woods

.60 - crest - still on heavy dol. float

.65 - heavy dol. float

- summit of hill of Dbs to SW - N70E, 46S

- view down valley to S.W. N30W, N15W

- 150' to SE the Clinch forms 2nd high point

lying N65E at about 55SE - there certainly  
is not room for very much Clinton here! 161

168  
22, 23, 24

- possibly "black" in basal Clinton - otherwise  
part of Clinton faulted out?

.70 Dev black sh N60E, 67SE

.80 Dbs — N45E  $\phi$

.85 " — N55E 80SE

.92 " — N30E, 60SE

.10 " — N40E, 80SE

1.08 " — N85W 54N - folded

1.10 cross trip from Lk

1.28

- N55E  $\phi$  at junction the trail + Back Creek  
N60E, 85NW - Dbs in Back Cr. front abandoned  
house - contains heavy beds hard grey ss a  
foot or more thick

Cave C. Doh to Sweet Spr

1.00 rd Lk in front of school Dbs N45E, 85SE  
(dip only, 33 on SE side crop - sharp fold)

.10 - x creek to R Lk

.25 Dbs N42E, 82SE

.30 " folded

.40 x creek to L Lk

.50 N45E, 41SE - Dbs

.52 folded local  $\phi$

.59 - red soil + "Ombrey" floor

.60 cross draw to g/3.6 - just beyond road in fault  
(fault then home - opening) - draw may  
represent a de. interval + perhaps the basal  
part of the Clinton rather than Chen sh  
- 60' across "patio" from N40 $\pm$ E, 47SE  
- 70' " draw to Creek bed







420 - trench + pit - red chert +  
grey sandy sh

580 - trench to red chert

590 - outcrop red (see above)

3025 - 4:10 (up 10-15' in 50 min)

1015 (red pit 17 p. to L of here)

1360 - center cut - opp. ~~4~~ 1/2 mi of Store

2725 - 4:20

— elev 2410 at rd 450

July 11 - Fri

to from Kitchen to Grand R.

1/2

1.28 { N56E, 20SE - loc. is = base of Turn R + ?

Lower part of this section is a mostly fine  
thin bedded, mostly argillaceous + carbonaceous (fossils +  
- higher beds (shales) + some are nearly  
laminar + are bedded - still argillaceous in  
well developed zone of mod. carbon.

- lower part of bedded beds. contain numerous  
trubulites - all 1 1/2 mi from base of exp.  
section only. All p.t. section good for base

1.6 Turn R

1.73 on Eden - Marysville

3.49 Sumath N60E 23SE

3.65 crest - appears to be at least 60' heavy

chert - heavy clay near lowest exp. layers

3.80 1 ch. Rd to R - lower red chert - crest to here

4.31 - crest of near base - all lower red beds

N56E 40SE - red chert on road

- about 75' to NW - no more for road 64



173

in the way of "lower shales" here  
 5.86 - turn L on other side of rd toward Adams  
 farm (Adams now lives on here SW  
 of rd - above)

- coll. fossils from rocky field 1.4 mi  
 from main rd. These are local Clinton  
 + mostly from "lower sh." on main  
 belt of iron boulders in on crest to SE  
 Ostracoder + trilobites common - with  
 some brachi. Note iron boulder (2 pieces +)  
 with tril + brach - these more.

- descended into valley could not pick up  
 Clinch - mostly red flint (some of  
 it Sun?) - gray bluish of for Clinton  
 widely scattered over hills

Db N47E, 82SE at 6.2 - below rd

" N40E, 85NW at 6.7 - (40' up hill on L)  
 also up on rd at 6.7 - quarry +  
 with little iron? - attitude - if like  
 last would have 120' ± DB.  
 - either or both crops may be slumped

6.85 cross stream stream lower down - now  
 under

8.15 old rd - turn L

8.31 - old RR (= New Rd) Lower B.

Turn SW + W

1.60 N71E, 31SE - Low Rd rd

2.23 N55E, 55SE - Rd in <sup>valley</sup> Chup

to Farm last seen before Mt - low ~~shale~~ <sup>hard</sup> <sup>65</sup> <sup>60</sup> <sup>65</sup>

" N 63 E 42 SE

2.90 " N 70 E S 35 E " " - at last point

3.69 N46W, 11NE, Dbs - on rd - gravel sandy s.

4.50) 1000 m - valley m. - sh. hills to R & L

Up Tank Run to SE from Laurel Br.

0.80 " ALSE S, NW

1.38 1.48  
1.38 1.48  
1.38 1.48

1.57 - home on Forest, Ave.

1.70 Pb N60E, 75NW, poor, west

1,78 hours on R

892 - just before fork in rd - N65E  
85SE = Junction - Clench 14.4 dr  
 up 1st + contact with 2nd (if not  
 red) line 60' from where rd x  
 branch

1.94 x-67.

2.09 to 4 R 6h

6.25 passed Rd to Port Jervis

9.75 - 800 Wm —

July 12 - Saturday

Amur. (1965) close to BM SW of Linton on RR cut  
(-27.80) 8:50 AM

To Tregreham property down Crander down. From  
sh of Dbs outcrop on bench between RR cut &  
hills to N70E. & to low upstream

1995' on rd at Crander gate 9:30

2385 outcrop Db on T. Tregreham prospect 10:10

much of Tregreham rd is mostly unroaded. In  
valley gets sandy pure, little position in  
chert - mostly very thin. Layers appear  
somewhat many - it is possible  
that this whole Db mass has slumped -  
like Clinton to N

- Use to main gully (very 2 smaller ones) &  
up to 3070 before finding first  
outcrops (12:05) - 1965 Clinton N50E 38  
SE

2270-2320 - Db floor appear - 12:40

2175 2235 - Down to at floor 1:50

2150 2175 100 - 1st time to see - no caption

2075 2090 1st - 1st rd to creek - "

P. DA Elev.

0 369E 2405 - 1125 Tregreham outcrop Db

50 551E

100 555E

150 542E

188 516E

225 535E

320 542E

390 55E

P. 1055  
than 2'



400 S7E  
 475 S20W  
 540 S50W  
 565 S65W  
 615 S20W  
 650 S10E  
 675 S  
 703 S10E  
 735 S32E *curve on R*  
 812 S55E " *SC 57E*  
 865 S70E  
 970 S  
 999 — *old rd x. creek*

July 15 -

Tues.

Db. on rd to Quilt Creek - below old mine tunnel

0 - old mine

70 p. Db - fresh, x-bedded, min on joints, hard  
 left layer 6" with softer partbed layer  
 between, no chert - grain medium, no  
 very hard layer - at ± possible a pyrite.  
N60W, 34NE

Q52

88 - axon small fold

117 - N15E, 23W *boundary to bed*

145 - N75E, 45S - " " "

160 - E-W, 15S ✓

190 - small draw .09 below mine tunnel

240 - *very under rd - DO floor*

20-31 *no in to bed of sandstone till about 68*

certainly in - <sup>2</sup> - ~~sampled~~ <sup>mass</sup> - ~~sign~~ <sup>are</sup> ~~not~~ <sup>in</sup> ~~the~~ <sup>of</sup>  
 - and ~~sampled~~ <sup>sampled</sup> ~~crystals~~ <sup>crystals</sup> - ~~in~~ <sup>in</sup> ~~not~~ <sup>not</sup> ~~sampled~~ <sup>sampled</sup>  
 - 25 - ~~sampled~~ <sup>sampled</sup> ~~in~~ <sup>in</sup> ~~N25E, 32W.~~ <sup>N25E, 32W.</sup> ~~which~~ <sup>may</sup> ~~belong~~ <sup>belong</sup>  
 in ~~DO~~ <sup>DO</sup> - ~~contains~~ <sup>contains</sup> ~~no~~ <sup>no</sup> ~~really~~ <sup>really</sup> ~~hard~~ <sup>hard</sup> ~~stone~~ <sup>stone</sup> ~~as~~ <sup>as</sup> ~~but~~ <sup>but</sup> ~~some~~ <sup>some</sup>  
~~ground~~ <sup>ground</sup> ~~like~~ <sup>like</sup> ~~hard~~ <sup>hard</sup> ~~stone~~ <sup>stone</sup> ~~in~~ <sup>in</sup> ~~it~~ <sup>it</sup> ~~is~~ <sup>is</sup> ~~very~~ <sup>very</sup> ~~rare~~ <sup>rare</sup>  
 in ~~very~~ <sup>very</sup> ~~rare~~ <sup>rare</sup> ~~but~~ <sup>but</sup> ~~is~~ <sup>is</sup> ~~present~~ <sup>present</sup> ~~at~~ <sup>at</sup> ~~both~~ <sup>both</sup> ~~ends~~ <sup>ends</sup> ~~of~~ <sup>of</sup> ~~long~~ <sup>long</sup>  
~~interruption~~ <sup>interruption</sup> ~~interruptions~~ <sup>interruptions</sup>, ~~the~~ <sup>the</sup> ~~are~~ <sup>are</sup> ~~not~~ <sup>not</sup> ~~typical~~ <sup>typical</sup> ~~of~~ <sup>of</sup> ~~the~~ <sup>the</sup>  
~~breaching~~ <sup>breaching</sup> ~~seen~~ <sup>seen</sup> ~~to~~ <sup>to</sup> ~~date~~ <sup>date</sup> ~~but~~ <sup>but</sup> ~~may~~ <sup>may</sup> ~~belong~~ <sup>belong</sup> ~~there~~ <sup>there</sup>, ~~could~~ <sup>could</sup>  
~~find~~ <sup>find</sup> ~~the~~ <sup>the</sup> ~~forests~~ <sup>forests</sup> ~~of~~ <sup>of</sup> ~~any~~ <sup>any</sup> ~~sort~~ <sup>sort</sup> - ~~some~~ <sup>some</sup> ~~of~~ <sup>of</sup> ~~the~~ <sup>the</sup>  
~~beds~~ <sup>beds</sup> ~~are~~ <sup>are</sup> ~~two~~ <sup>two</sup> ~~feet~~ <sup>feet</sup> ~~thick~~ <sup>thick</sup> - ~~some~~ <sup>some</sup> ~~end~~ <sup>end</sup> ~~of~~ <sup>of</sup> ~~interruption~~ <sup>interruption</sup>  
~~contains~~ <sup>contains</sup> ~~spherical~~ <sup>spherical</sup> ~~masses~~ <sup>masses</sup> ~~of~~ <sup>of</sup> ~~brown~~ <sup>brown</sup> ~~iron~~ <sup>iron</sup> ~~oxide~~ <sup>oxide</sup> ~~with~~ <sup>with</sup>  
~~radiating~~ <sup>radiating</sup> ~~structure~~ <sup>structure</sup>, - ~~N25E, 38N~~ <sup>N25E, 38N</sup> ~~at~~ <sup>at</sup> ~~lower~~ <sup>lower</sup>  
~~end~~ <sup>end</sup> ~~of~~ <sup>of</sup> ~~interruption~~ <sup>interruption</sup> ~~where~~ <sup>where</sup> ~~sample~~ <sup>sample</sup> ~~marked~~ <sup>marked</sup>

- L.H. ~~sample~~ <sup>sample</sup> ~~is~~ <sup>is</sup> ~~corner~~ <sup>corner</sup> ~~of~~ <sup>of</sup> ~~part~~ <sup>part</sup> ~~of~~ <sup>of</sup> ~~interruption~~ <sup>interruption</sup>,  
 - ~~sample~~ <sup>sample</sup> ~~of~~ <sup>of</sup> ~~taken~~ <sup>taken</sup> ~~above~~ <sup>above</sup> ~~some~~ <sup>some</sup> ~~show~~ <sup>show</sup> ~~iron~~ <sup>iron</sup> ~~stone~~ <sup>stone</sup>  
 " ~~few~~ <sup>few</sup> ~~small~~ <sup>small</sup> ~~pieces~~ <sup>pieces</sup> ~~of~~ <sup>of</sup> ~~ore~~ <sup>ore</sup> - ~~compactly~~ <sup>compactly</sup> ~~shard~~ <sup>shard</sup>  
~~and~~ <sup>and</sup> ~~open~~ <sup>open</sup> ~~on~~ <sup>on</sup> ~~both~~ <sup>both</sup> ~~sides~~ <sup>sides</sup> ~~of~~ <sup>of</sup> ~~ore~~ <sup>ore</sup> ~~stone~~ <sup>stone</sup>  
~~close~~ <sup>close</sup> ~~to~~ <sup>to</sup> ~~crack~~ <sup>crack</sup> - ~~it~~ <sup>it</sup> ~~is~~ <sup>is</sup> ~~in~~ <sup>in</sup> ~~block~~ <sup>block</sup> ~~and~~ <sup>and</sup>  
~~helps~~ <sup>helps</sup> ~~of~~ <sup>of</sup> ~~sandy~~ <sup>sandy</sup> ~~beds~~ <sup>beds</sup> ~~material~~ <sup>material</sup> ~~under~~ <sup>under</sup>  
~~water~~ <sup>water</sup> ~~in~~ <sup>in</sup> ~~crack~~ <sup>crack</sup> ~~all~~ <sup>all</sup> ~~around~~ <sup>around</sup> ~~during~~ <sup>during</sup> / ~~no~~ <sup>no</sup> - ~~Don~~ <sup>Don</sup>

- 40 N65E, 25N - ~~is~~ <sup>is</sup> ~~not~~ <sup>not</sup> ~~any~~ <sup>any</sup> ~~similar~~ <sup>similar</sup> ~~to~~ <sup>to</sup> ~~last~~ <sup>last</sup>

51

55 junction with #15 - ~~edge~~ <sup>edge</sup> ~~Point~~ <sup>Point</sup> ~~Bank~~ <sup>Bank</sup>

D63 N62E, 41.5E - ~~in~~ <sup>in</sup> ~~Potts~~ <sup>Potts</sup> ~~Creek~~ <sup>Creek</sup>  
 at 388 W of ~~Manton~~ <sup>Manton</sup> ~~house~~ <sup>house</sup>

174

To bridge on Portals at Even Run -  
 up stream on Even Run to big mass  
 Drunkany 200 yards - 10+ feet thick -  
 thin foot crop  $\pm$   $\oplus$  - thin with slight  
 dip into hill - grey chert floor on  
 top of it - if slumped it has not come far  
 - kind of rock is hard, porous, ferrug.  
 (blue metallic type) - other parts fresh -  
 bedded + fine (even stream) - conglomerate  
 - part sample and chert floor

2200 - 2:40 - at pt 1/6 W of Linton house

2250 - 2:50 - summit of hill on  
 chert floor

Descent to R+ even creek - at 2085'  $\searrow$  3:15  
 but from here left - hard white ss  
 on bed bed - probably Clinton - here  
 1975E, 9.5 - ss. fine gr. + dense  
 - cannot be Drunkany

175

1915' - 3:50 - creek to right - at (road side)  
 1910' - 3:55 - at foot of hill - opp Even Run

July 16

at L.  
 1975 - 8:30 of  
 1975 - 8:30 at creek on Coaster place  
 + N  
 1975 - 8:30 at creek on Coaster place  
 floor - still on chert floor (1975) + some  
 distance beyond - up to 2465 - now well  
 up. Drunkany foot here - uniform  
 slope with 20 boulders - mostly  
 red Clinton - head SSW to foot  
 (at the cutting around to 4)





30'60 12'30

177

July 17

- There.

178

174

180

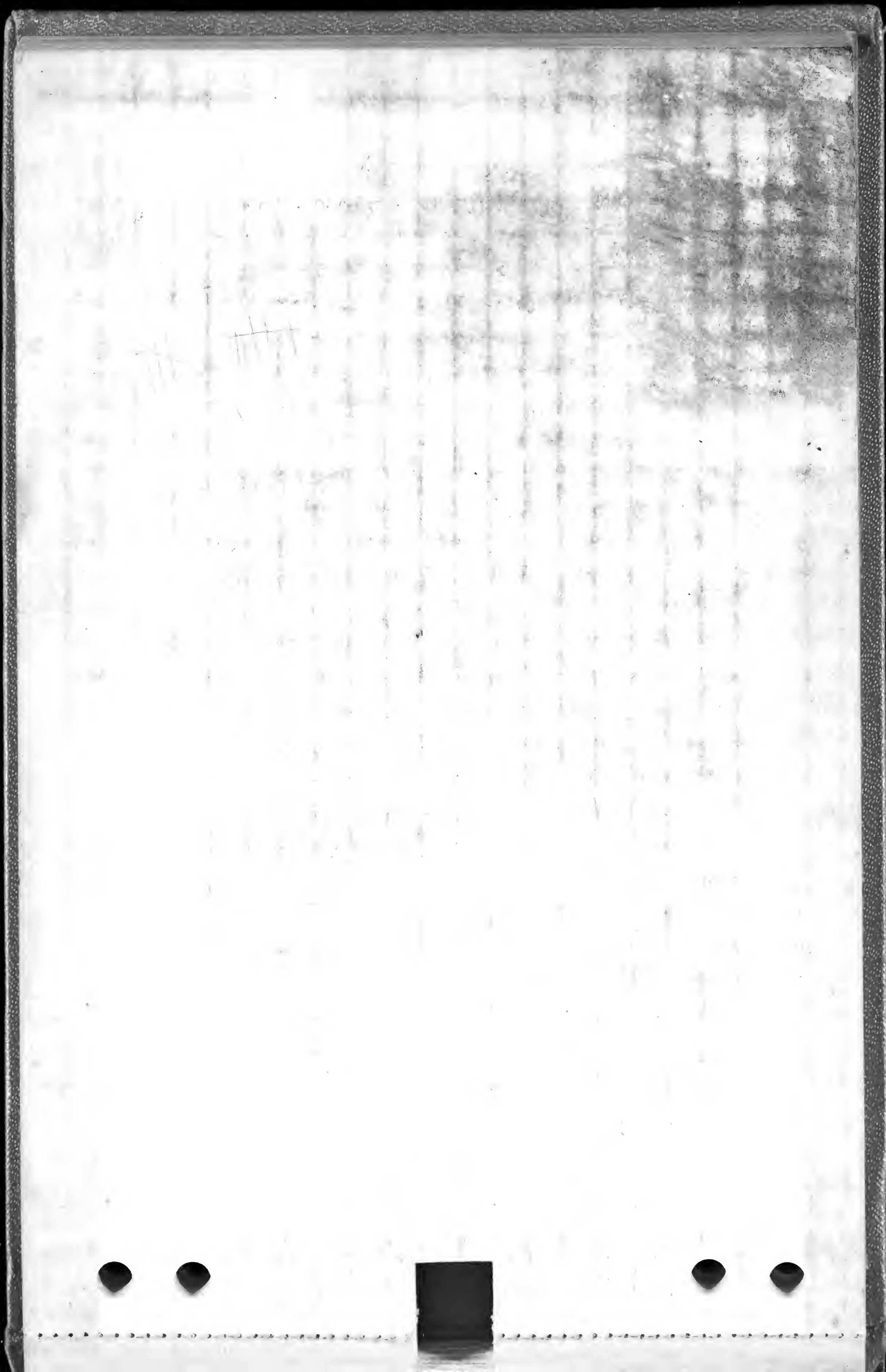
0.81 0.61 5.14 -

1.00 turn - - - - - 1.00 for R

1.32-Brick

73





Woodville, T. P. Bay, Game Warden



